

## **ABSTRACT**

### **Ligand Based Solution Assay For Low Concentration Analytes**

The present invention provides an assay for an analyte in solution. The assay relies, in part, on associating two catalytic activities in close proximity to each other (e.g., by conjugating each enzyme to a ligand that binds the analyte) and providing substrates that produce a colored product only when both activities are bound to the same molecule in solution.